

### FEMA PUBLIC ASSISTANCE

DEBRIS MANAGEMENT PLANNING &
THE DEBRIS MANAGEMENT PLAN
AND
PUBLIC ASSISTANCE PILOT PROGRAM



## Course Overview

- Debris Management Planning
  - What is debris
  - Sources
  - Types
  - Debris Activities
  - Debris Issues
- · The Debris Management Plan Components
- The PA Pilot Program
  - Four Procedures
  - Debris Plan Review
- Additional Information



Debris, (deh bree') n. [MF debrie, L debrare]: residue from a disaster which would normally have little or no value, but upon a presidential declaration, will cost a great deal of money.



# Debris

- Usually the largest component of FEMA Disaster Public Assistance (more than 75% of PA cost or \$156 Mil for Isabel in VA)
- Requires experienced & knowledgeable personnel to guide initial planning.
- · Requires a team effort.





Floods

Farmulales .













#### Hazardous Material

Hurricane Katrina - LA





Hurricane Floyd 1999





#### Debris Activities

 Debris Clearance - Move debris off roadway surface.

 Debris Removal - Load, haul, reduce, and dispose. Reduction / staging sites key to scoping the mission. Includes reporting & tracking. Units reported in cubic yards or tons (documentation of quantity required by FEMA).



#### Debris Issues

- Who is responsible?
- Is there a back-up agency responsible?
- What are the State/local agency roles & responsibilities?
- Is available equipment adequate to clear debris from critical access routes?



# What are we dealing with?

- Type of Event?
- Type of Debris?
- Contaminants?
- Quantities?
- Evidence?



- · Typical Hurricane Debris Make-up
  - 30% clean woody debris
  - 70% mixed Construction & Demolition (C&D)
    - · 42% recyclable if sorted
    - 5% soil
    - 18% metals
    - · 38% landfilled
- Curbside Collection
   Requirements Segregation



- · Haul Routes?
- Haul distance?
- · Where is the final disposal?

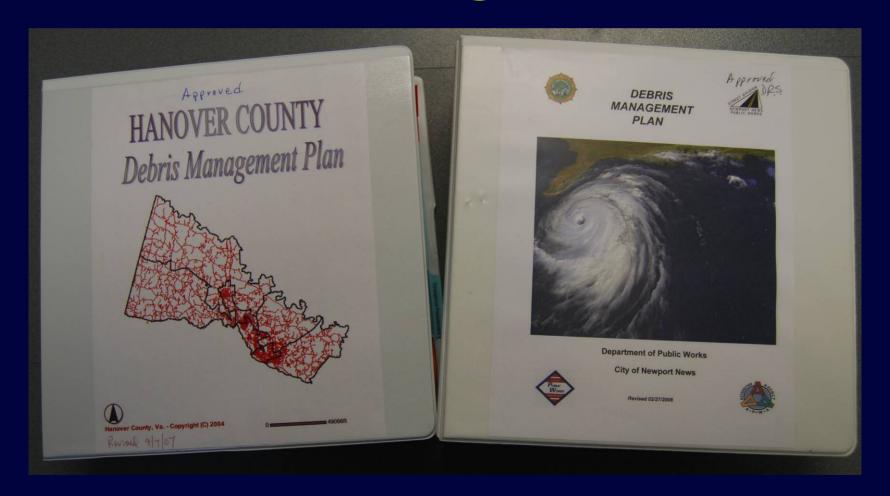


#### Debris Staging & Reduction Sites

- · Public land is preferable
- · Identify ahead of time
- · Target 50 200-acre tracts
- Leasing possible w/FEMA approval



# Where to start??? A Debris Management Plan





# DEBRIS MANAGEMENT PLAN

- Establishes procedures and guidelines for managing disaster debris in a coordinated, environmentally responsible, and cost effective manner
- Expedites response & recovery activities
- Ensures effective use of resources
- Ensures efficient management of costs
- Mitigates impacts to humans and environment
- Returns community back to normalcy quicker



# DEBRIS CLEARANCE PRIORTIES

- Response
  - Establish access to disaster impact area
    - Based on critical facilities and associated transportation routes
    - Remove debris obstructing access to critical facilities and posing immediate threat to public health and safety



 Provides significant psychological boost to impacted communities



# DEBRIS REMOVAL PRIORITIES

#### Recovery

- Remove debris from residential neighborhoods and public areas
- Performed after response priorities have been accomplished





## TEAM STRUCTURE

- Facilitates
   Coordination/Execution of Plan
- Includes support from a variety of internal departments as well as external agencies



# Roles and Responsibilities

- Command and Control
  - Major decisions
  - Coordinates overall response
- Administration
  - Funding/Accounting
  - Collects/maintains documentation regarding resources utilized (e.g., personnel, supplies, equipment, contract services etc.)
- Contract Procurement
  - Preparation of bid solicitations, evaluation of bids and negotiation of contract agreements
  - Change Orders/Amendments

# FEMA Roles and Responsibilities

#### Legal

- Contract Review
- Right of Entry/Hold Harmless Agreements
- Leasing
- Claims

#### Operations

- Contract Supervision/Coordination
- Project Management
- Sector Management
- Reduction Site Management

# FEMA Roles and Responsibilities

- Engineering and Planning
  - Technical Support
    - Debris Quantity/Cost Estimates
    - Supports development of contract Scopes of Work
    - · Plans/Permits
- Public Information
  - Strategy
  - Press Releases
  - Public Notices/Information
  - Media Coordination



#### Debris

- Quantity and type of debris will be function of:
  - Type of event
  - Magnitude, intensity and duration
  - Location



# FEMA Estimating Debris Quantity

- Historical Data
- USACE Debris Projection Model Projections
- Neighboring/Similar Jurisdictions
- Virginia Department of Forestry Debris Estimating Technique for Urban Environments
- Consultants / Private Vendors







# Resource Inventory/ Needs Assessment

- Evaluate existing resources/capabilities in context of projected/estimated quantities
  - Force Account/temporary labor
  - Contract Services
  - Mutual Aid
  - Volunteer Organizations
  - Technical Resources
  - Supplies/Equipment
  - Recycling/disposal capacity
  - Regional, state resources

# FEMA Debris Collection Methods

- · Curbside
- Community Drop-Off Bins or sites
- Collection of Segregated Waste at curbside or designated areas
  - Household Haz. Waste
  - White Goods
  - Electronic Waste
  - Vegetative
  - C &D



### Collection Schedule

- Number of passes
- Schedule of passes
- Integrate Recycling considerations into schedule
  - Types
  - Collection Approach
  - End use specifications
  - Markets



# FEMA Temporary Debris Storage and Reduction Sites

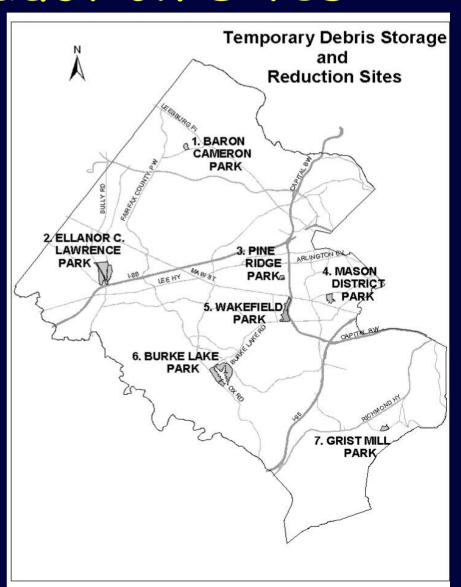
- Locations
- Ownership: Public/ Private
- Size/topography
- Transportation good ingress/egress
- Environmental Reg.
- Permits

Entrance E&S

Land Use Burning

Freon

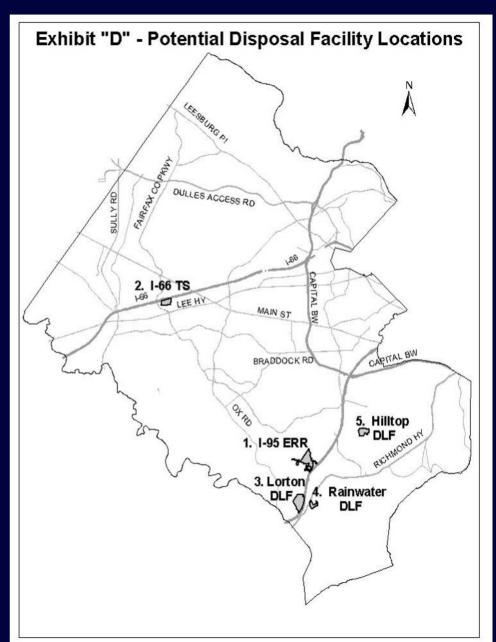
- Establish baseline to document pre-existing conditions





# Disposal Facilities

- Considerations
  - Current Landfills
    - Location
    - Capacity for disaster debris
    - Status
    - Impact on projected life of landfill





# Volume Reduction

- Burning
- · Grinding
- · Baling Reduction
- · Compatibility with adjacent land uses









# Contracted Services

- Procurement requirements & procedures
- Potential Contracts
  - Debris Removal
  - Recycling Collection
  - Construction & Restoration of Debris Management Sites
  - Management of Debris Management Sites
  - Monitoring Services



# Contract Types

- Time and Materials FEMA eligibility typically limited to the first 70 work hours
- Unit Price cost per CY or cost per Ton
- Lump Sum one price for a WELL defined scope of work



# Monitoring Field Operations

- Suggest that only eligible debris be collected
- Measure/certify truck capacities
- Ensure trucks are not artificially loaded
- Meet permit requirements
- Monitor pickup, reduction, & disposal





# Load Tickets

- Complete & physically control load tickets
- Need to indicate location debris was picked up and note the last load from that particular site
- Need to indicate type of debris
  - i.e., Vegetative, Construction & Demolition (C&D), Mixed, etc.
- Do not issue tickets for ineligible debris such as piles of tires, automobile or truck frames, etc. that was not caused by the disaster
- Protect as if it were your checkbook as it represents a form of payment verification.

					$\equiv$
Load Ticket		Ticket No. 0012345			
Municipality (Applicat	Pri	Prime Contractor			
	Su	Sub-Contractor			
Truck Information					
Truck No	Capacity				
Truck Driver (print legibly)					$\dashv$
Track Driver (print legibly)					
Loading Information Time Date Inspector/Monitor					
Loading	Time	Date		Inspector/Monitor	$\dashv$
Loading					
Location (Address or Cross Streets)					
When Using GPS Coordinates use Decimal Degrees (N xx.xxxxx)					
N		W			
Unloading Information					
Debris Classification		Estir	nate	ted %, CYs, or Actual Weight	_
☐ White Goods					
☐ HHW					
☐ Other* See Bel	ow				
	Time	Date		Inspector/Monitor	
Unloading					
DMS Name and Loca				1	_
DINO Name and Location					
*Other Debris Explan		Originals Applicant		_	
		Original: Applicant Copy 1:			
		Copy 2:			
			Copy 3:		



#### Private Property Debris Removal

- · Potential Types
  - Residential
  - Gated
  - Mobile Home Parks
  - Marinas
  - Commercial Property
- Applicable Codes
  - Health and Safety
    - Solid Waste
  - Building and Safety

- Pre-approved by FEMA the exception not the rule
- Legal Procedures required to enter property
  - Property Owner Permission
    - Right-of-Entry
    - Hold Harmless
    - Indemification
  - Executive Order
  - Court Order



# Demolition of Private Property

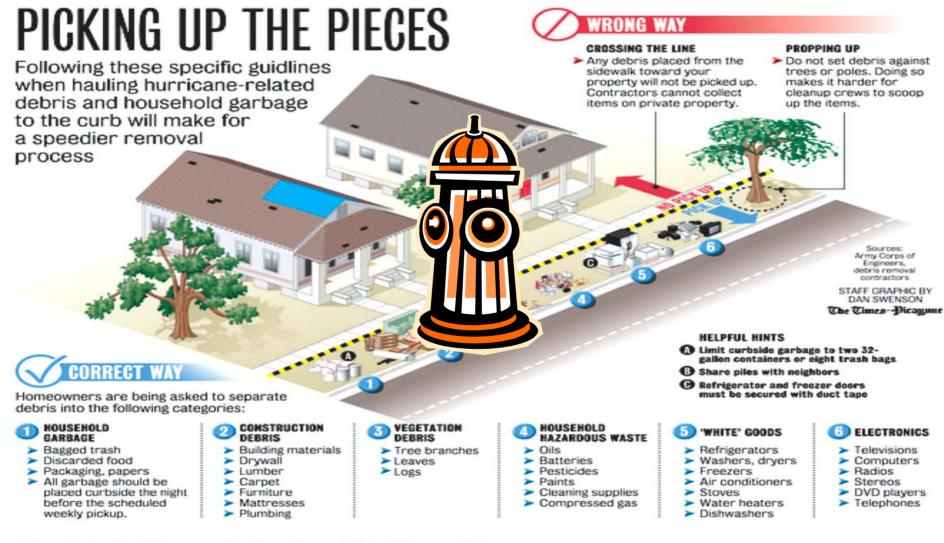
- FEMA Approval required for reimbursement
- Determine conditions/criteria under which local government can condemn, demolish structures
  - Immediate public health/safety threats
  - Public health and safety, building codes, fire codes



#### Public Information

- · Placing debris curbside
- Segregation of materials
  - Household Hazardous Waste
  - White Goods
  - Vegetative
  - C & D
- · Debris pick-up schedules
- Keeping debris piles away from fire hydrants

#### Curbside Pickup



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## FEMA Health and Safety

- Establish minimum health & safety standards for all debris activities
  - Protect workers from exposure to HAZMAT
  - Identification of potential hazards at loading and reduction sites
  - Guidelines for the use of PPE
  - Applicant can use established County or City Health & Safety Policy



- Implementation Strategy
  - Dissemination of policy
  - Compliance monitoring
  - Corrective actions if standards are not met.



# Regional Debris Contracts/State Plan



- Request for Proposals being developed in coordination with VDOT and General Services
  - Debris Removal Services include Regional Estimates based on USACE model
  - Debris Monitoring Services
- Regional Framework
- Update of State Debris Management Annex



# PA Pilot Program

- Approved by Congress with 2006 legislation
- Effective June 1, 2007 thru Dec.31, 2008
- Participation open to all state and local governments and federally recognized Indian Tribes
- Private non-profit (PNP) not eligiblePilot
- Program Procedures apply only to debris removal (Cat
   A) and Permanent Work (Cat C-G).
- Four <u>separate</u> procedures available under the Pilot Program.
  - 1. Grants Based on Estimates
  - 2. Increased Federal Share
  - 3. Debris Recycling
  - 4. Force Account Labor



#### FEMA 1. Grants Based on Estimates

- ·Categories A, C-G
- ·Large Projects ≤ \$500K



- · Paid based on estimate
- · Payment of Federal Share as soon as practicable after approval
- Work must be completed
- Applicant can keep underruns
- · No appeal process



# 2. Increased Federal Share Incentive



- Five percent increase in Federal Share with:
  - -FEMA-approved
    Debris Management
    Plan and
  - -At least two prequalified debris removal contractors identified prior to a disaster.
- Applicable to Category A work



### 3. Debris Recycling



- Applicant retains revenue from the salvage value of recyclable disaster debris.
- · Applicable to Category A work



#### 4. Force Account Labor



- Reimburse the straight- or regular-time salaries and benefits of staff performing debrisrelated activities.
- Applicable to Category A work

## FEMA PA Pilot Program

#### Goals of the PA Pilot included in the legislation:

- Reduce costs to the Federal Government;
- Increase administrative flexibility; and
- · Expedite the provision of assistance to States and local governments.

FEMA to report back to Congress by Mar.31, 2009



# FEMA PA Pilot Program Increased Federal Share

- Debris Plan must be adopted by jurisdiction
- Submitted to FEMA for approval prior to or once disaster is declared
- FEMA approval is based on FEMA checklist

- Pre-qualification of contractors involves:
  - Identifying/evaluating contractors abilities to perform debris work
  - Compliance with applicants procurement requirements

- Does the plan outline the roles and responsibilities of the various functions identified (Public Works, Finance, and Solid Waste Departments, etc.)?
- 2. Does the plan address health and safety procedures in accordance with State/Local health and safety standards/requirements?
- 3. Does the plan identify procedures for acquiring required regulatory permits?
- 4. Does the plan address the basis for planning which include assumptions for various events and forecasting/modeling for debris volumes?
- 5. Does the plan include priorities for the clearance, collection, and disposal of debris?
- 6. Does the plan address recycling?
- 7. Is there a process for the collection and disposal of hazardous waste and/or white goods?

#### FEMA DEBRIS PLAN CHECKLIST

- Does the plan address debris monitoring of the pickup 8. sites, Debris Management Sites (DMS) or Temporary Debris Storage and Reduction Sites (TDSR) and final disposal?
- 9. Does the plan identify DMS' or TDSRs' and potential landfills for final disposal to include operation and site management procedures and staffing?
- 10. Does the plan address the environmental requirements?
- Does the plan address contracting/procurement procedures?
- 12. Does the plan address the authority and processes for private property debris removal?
- Does the plan address the dissemination of information to the general public and media?
- 14. Does the applicant have a list of pre-qualified contractors?
- 15. Does the applicant have documentation demonstrating how the list was obtained?



### FEMA Additional Information

- www.fema.gov/government/grant/pa/index.shtm
  - Policy and Guidance
  - Debris Management "Debris Management Guide FEMA 325"
  - Application Process
  - Roles and Responsibilities
  - Resources and Tools
  - Reference Topics
  - Facts and Statistics
- www.fema.gov/government/policy/papilot.shtm
  - Pilot Program Debris Checklist
  - Suggested Debris Plan Outline
  - Pilot Program Guidance
- VDEM web page
  - Template for Debris Management Plans
  - Samples of Approved VA Debris Management Plans Chesapeake, Hanover, Fairfax Co, & Newport News



#### CONCLUSION:

# "Five minutes before the party is not the time to learn to dance!"

Snoopy

circa 1978